



Aerospace



Agribusiness



Energy



Life Sciences



Logistics



Manufacturing

Jill P. Stuckey, Director

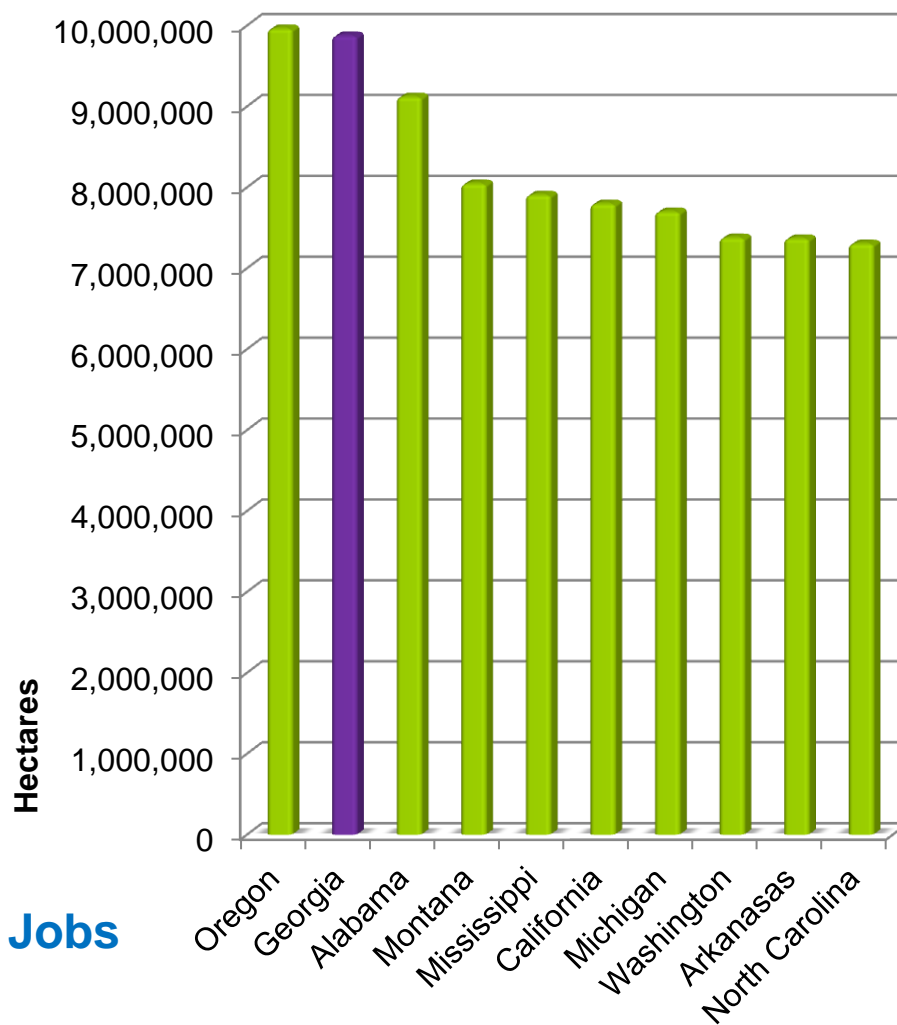
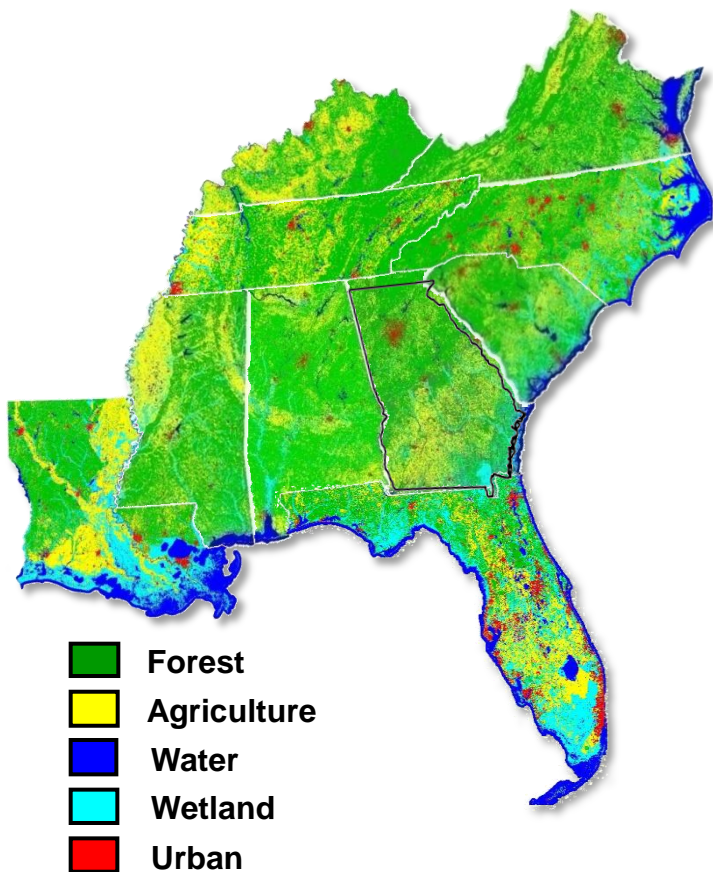
Center of Innovation – Energy



Drivers

From an Economic Development Standpoint

- **Economy** – Forest Industries
- **Mandates** – Europe- creating jobs in the US
- **Environment** – It's cleaner
- **Energy Security** – Supply disruptions, Middle East



Southeast Forestry = Biomass Energy = Jobs

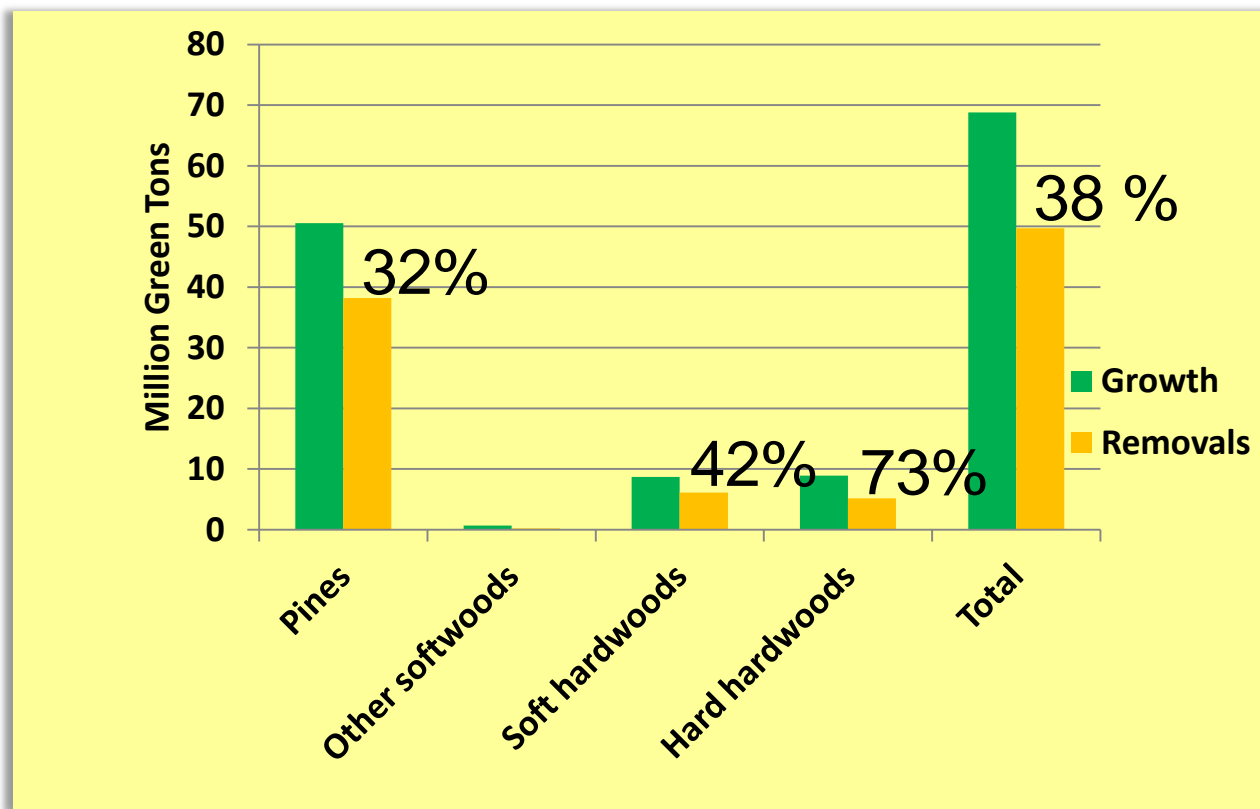


Georgia Wood Removals

- 1995 – 51.4 million green tons harvested
- 2009 – 39.2 million green tons harvested

12.2 million green tons to get back to where we were...

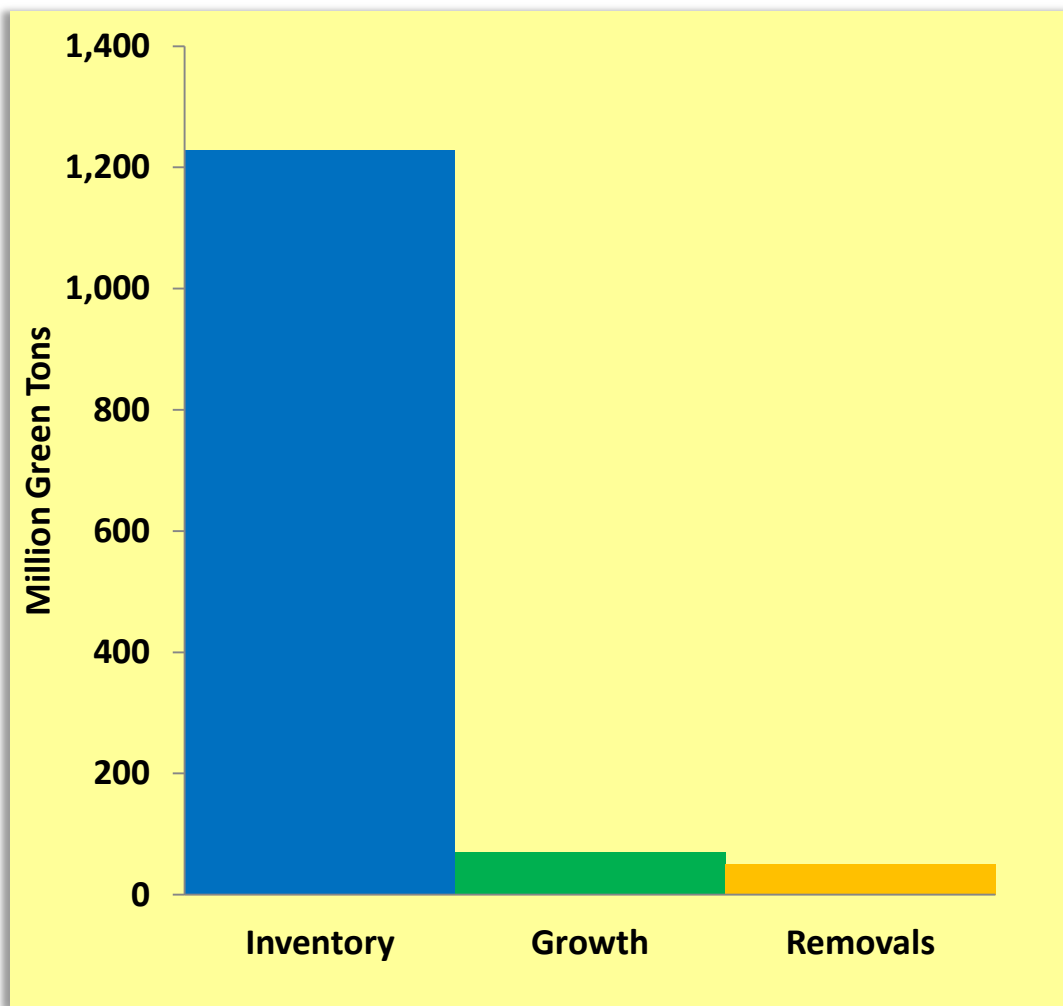
Growth and Removals of Merchantable Trees



*Between 1998 and 2008 the growth of growing stock on timberland in the state has exceeded removals by an **average of 38.5%** annually or 546,086,970 cubic feet per year*

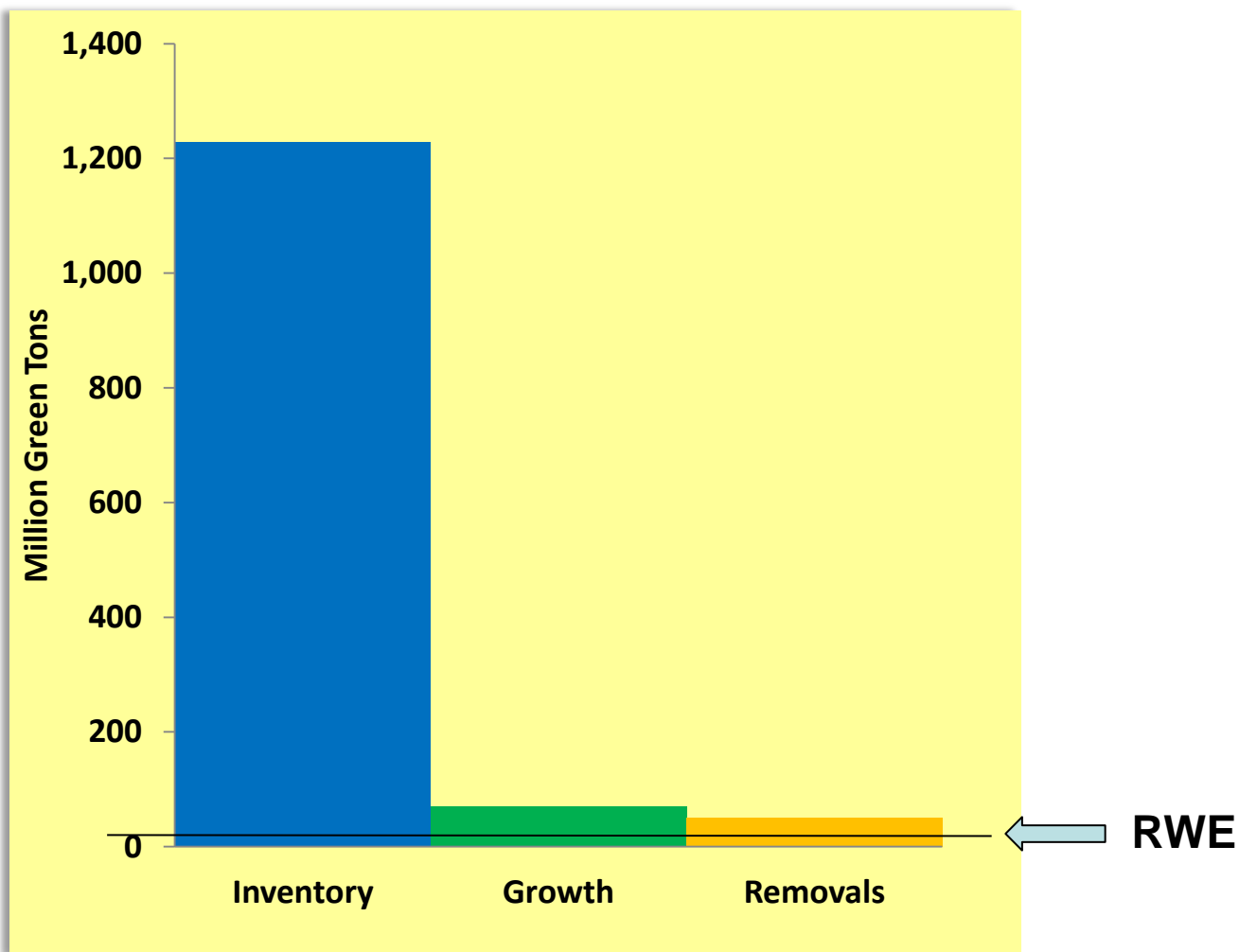


Forest Inventory





Forest Inventory





Giant Miscanthus

- **Herbaceous, Deciduous, Perennial**
- **Rhizomes rather than seed**
- **11 - 25 Dry tons/acre/year**
- **Height up to 15 feet**
- **Low environmental inputs**
- **Alternative non-food use for marginal Land**
- **Drought tolerant, crowds out weeds**
- **Carbon neutral**

101 in Economic Development

1. Don't trash the other guy, too much.
2. Don't throw out high numbers.
3. Don't throw out low numbers.
4. Don't tell me your going to give 30% of the profits to poor children.
5. Don't tell me you have all the money you need and aren't looking for anything from the Feds, State County, or City



Yesterday...





GOVERNMENT COMMON SENSE



One Stop Shop

- **Forum** for new and expanding businesses
- Venue to explain state & federal **policies and procedures**
- We work to Expedite the **permitting** process
- **Matchmaking** to form successful collaborations

One Stop Shop

Georgia Offices

- Center of Innovation
- Governor's Office
- Agriculture
- Natural Resources
- Revenue
- Environmental Protection Agency
- Community Affairs
- Economic Development
- Herty Advanced Materials Development Center
- State Fire Marshall

Federal Offices

- Forestry Commission
- Department of Agriculture

Universities

- University of Georgia
- Georgia Institute of Technology



Announced Bioenergy Projects by State

State	Projects
GA	37
CA	34
FL, OR, PA	18
ME, MI, VA, WI	17
NY	16

Source: Forisk Consulting, LLC



Sister Jill's Crystal Ball

Pellets

Drop In Fuels

Electricity

Chemicals

Torrefaction

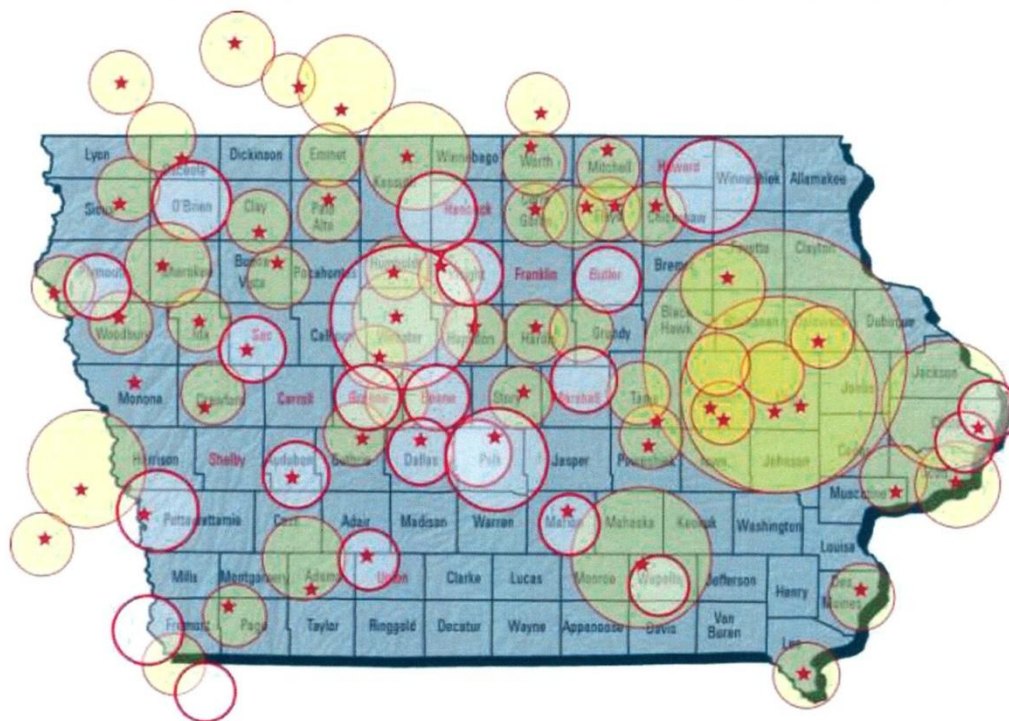
Pharmaceutical



Ethanol



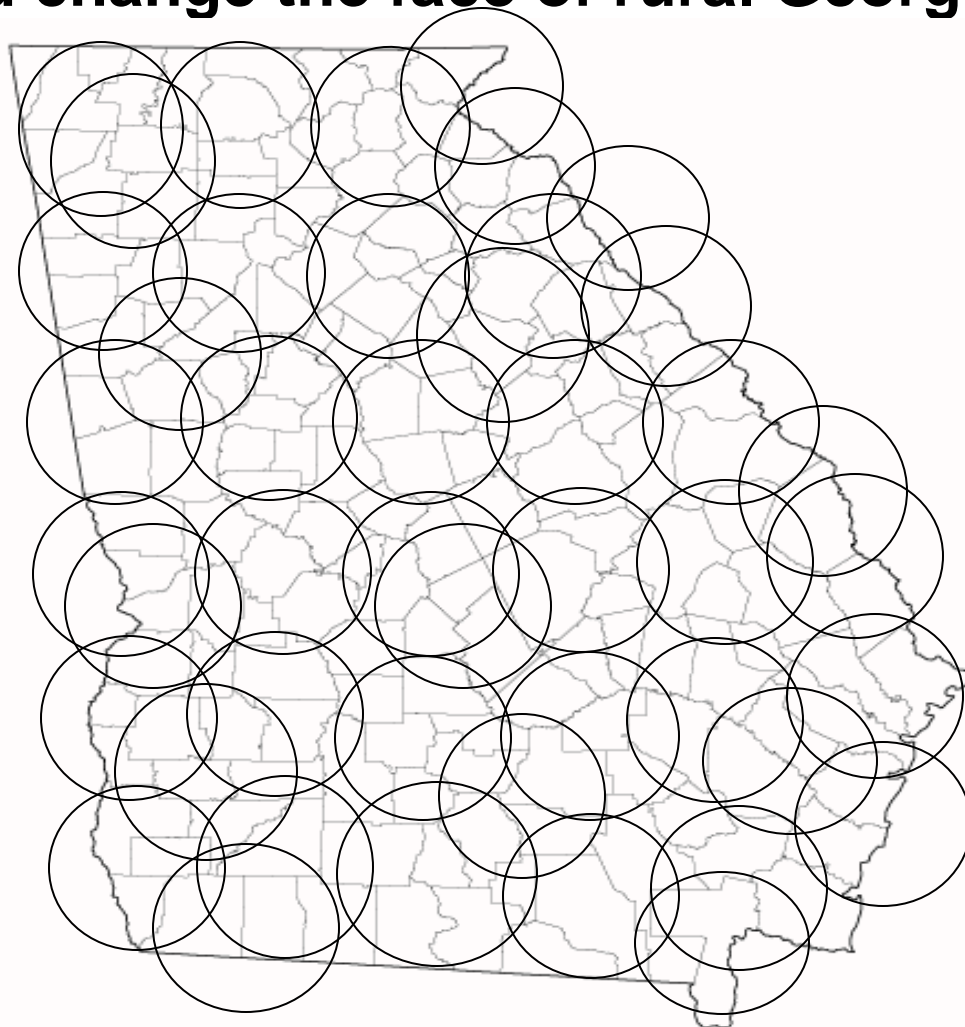
2002-2008: What Happened in Iowa in re: Biofuels?

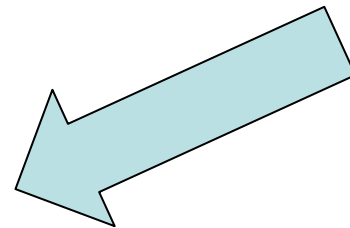




Bio based fuels could change the face of rural Georgia

The State has sufficient biomass to support the development of over 45 major biomass investments of greater than \$100 Million each.







For More Information Contact:



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energy.georgiainnovation.org.

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